

Title (en)

TRANSMITTING AND RECEIVING RADIO FREQUENCY SIGNALS USING AN ACTIVE ELECTRONICALLY SCANNED ARRAY

Title (de)

SENDEN UND EMPFANGEN VON FUNKFREQUENZSIGNALEN UNTER VERWENDUNG VON AKTIVEN, ELEKTRONISCH ABGETASTETEN ARRAYS

Title (fr)

EMISSION ET RECEPTION DE SIGNAUX A RADIOFREQUENCES UTILISANT UN RESEAU ACTIF BALAYE ELECTRONIQUEMENT

Publication

**EP 1784893 A1 20070516 (EN)**

Application

**EP 05818470 A 20050825**

Priority

- US 2005030305 W 20050825
- US 93113904 A 20040831

Abstract (en)

[origin: US2006055599A1] A system for transmitting and receiving signals includes an array system of one or more active electronically scanned arrays. The array system includes a receive portion of a first number of receive elements and a transmit-receive portion of a second number of transmit-receive elements. A transmit-receive element includes monolithic microwave integrated circuit power amplifiers and low-loss miniature combiners. A signal processing system processes signals. A beam forming system generates receive beams of the receive elements. A receive beam has a receive beam beamwidth that is less than a transmit beam beamwidth of a transmit beam of the transmit-receive elements.

IPC 8 full level

**H01Q 21/00** (2006.01)

CPC (source: EP US)

**H01Q 21/0025** (2013.01 - EP US); **H01Q 21/0093** (2013.01 - EP US)

Citation (search report)

See references of WO 2006033767A1

Cited by

CN109217908A; DE102013105809A1; DE102013105809B4; WO2014194877A1

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DOCDB simple family (publication)

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